

GENERAL DYNAMICS/CONVAIR

SALES ORDER

Sold to: Cathay Pacific Airways, Ltd.
Hong Kong

Date: 2 November 1964
S. O. No: 880-26-17
W. O. No: 30791

DELIVERY SHORTAGES
CATHAY PACIFIC AIRWAYS, LIMITED

- (1) At the time of delivery of Convair 880, Model 22M Aircraft, Serial No. 43, Registration No. VR-HFT, the transfer of ownership was made with the following shortage:

Two (2) each First-Aid Kits

- (2) Material Department is authorized to procure two (2) each first-aid kits. Upon receipt, the kits are to be shipped to Cathay Pacific Airways, Ltd.

SJH:msm

Log No. 114A


H. Digges
Director of Contracts

GENERAL DYNAMICS/CONVAIR

SALES ORDER

Sold to: Cathay Pacific Airways, Ltd., Date: 29 June 1964
Hong Kong S.O. # 880-26-15
W.O. # 30791

EXCHANGE OF ENGINE - SHIP NO. 43

- 1 The engine originally installed in the Number four position in Ship No. 43 was, during test, found to be deficient in certain performance. This particular engine is to be removed and replaced with engine Serial No. 403-111 from airplane No. 45.
 - 2 The removed deficient engine is to be held pending further instructions.
 - 3 There is no cost to the customer in connection with this authorization.

CJD:pj

J. G. Cotton

D. H. Digges
Director of Contracts

Log No. 873

GENERAL DYNAMICS/CONVAIR

SALES ORDER

* 14 July 1964

Attention:	Cathay Pacific Airways Ltd. Hong Kong	Date:	18 June 1964
Reference:	(a) CPA letter KT/431/64 dated 21 May 1964 (b) Telecon George Byers/C.J. Dutton 14 July 1964	S.O. #	880-26-14
		W.C. #	30791

MODIFICATION OF KIFIS COMPUTER

1 Under Reference (a), the customer has authorized modification of First Officer's KIFIS Computer Part No. A-30710-00-002 into a Captain's position Computer which then will be identified as Part No. A-30710-00-00C. This modification task is to be accomplished by Kolloman.

2 All concerned are hereby authorized to remove the above Computer and ship to Kolloman, Attention: Mr. J. Kane, Repair and Administration Dept Kolloman, New York City, New York. Material Department is authorized to issue the necessary Purchase Order Requisition enabling procurement of the services required; coordination of the shipment shall be accomplished under Material Department cognizance; airshipment is authorized pursuant to Reference (b) in order to protect schedule.

3 Costs under this authorization are to be accumulated for reimbursement by the customer and related invoicing is to be originated for processing to Cathay Pacific at time of delivery of the aircraft.

[Signature] Revised 7-14-64 to amend para. 2
and add Ref. (b). CJD:pj

[Signature]
D. H. Digges
Director of Contracts

CJD:pj

Log No. 322 906

JULY
GENERAL DYNAMICS/CONVAIR

No. 2
Model 22-00-43

CATHAY PACIFIC AIRWAYS MINUTES

Reference (a) Sales Order 880-26-14

MODIFICATION OF KIFIS COMPUTER

In accordance with Reference (a), Sales Order, the First Officer's KIFIS Computer, Part No. A-30710-00-002 is being reworked by Kollsman Instrument Company into a captain's position computer, Part No. A-30710-00-009.

ACTION: Engineering to submit appropriate EWO's to the Program Office to reflect the above change.

EJ Savard for
A. J. Savard
880/990 Program Office

cc: C. J. Dutton
T. Whelan
W. F. Brown/W. Fitzsimons
Minutes File
W. T. Dorrance
S. W. Swenson

GENERAL DYNAMICS/CONVAIR

SALES ORDER

Sold to:	Cathay Pacific Airways Ltd. Hong Kong	Date:	18 June 1964
Reference:	(a) CPA letter KT/431/64 dated 21 May 1964	S.O. #	880-26-13
	(b) CPA letter KT/504/64 dated 12 June 1964	W. O. #	30791
	(c) Sales Order 880-26-11		

PREPARATION FOR DELIVERY OF SHIP NO. 43 TO CATHAY PACIFIC

1. In accordance with the request contained in Reference (a) and (b) letters, the following action is to be taken in connection with the preparation of Ship No. 43 for delivery to the customer:

- (a) Registry Letters VR-HFT are to be painted on the wings and tail of the aircraft in accordance with Drawing 22-98906.
- (b) SEL CAL code letters CJ-DH are to be assigned to the aircraft and the Dual Motorola SEL CAL Receiver is to be adjusted to this coding.

2. There is no cost to the customer in connection with this authorization.

CJ D.pj


D. H. Digges
Director of Contracts

Log No. 854

July

No. 1

Model 22-00-43

CATHAY PACIFIC AIRWAYS MINUTESReference (a) Sales Order 880-~~6~~-13PREPARATION FOR DELIVERY OF SHIP No. 43 TO CATHAY PACIFIC

In accordance with Reference (a) Sales Order, the following are to be accomplished on aircraft 22-00-43 during preparation for delivery.

- (a) Registry letters VR-HFT are to be painted on the wings and tail of the aircraft in accordance with Dwg. 22-98906.
- (b) SEL CAL Code letters CJ-DH are to be assigned to the aircraft. The dual SEL CAL Receiver is to be adjusted to this coding. (Note receivers have been adjusted to the CJ-DH call letters.)

ACTION: Engineering to submit appropriate EWO's to the Program Office to reflect the above change.



A. J. Savard
880/990 Program Office

Cc: C. J. Dutton
T. Whelan
W. F. Brown/W. Fitzsimons
W. T. Dorrance
Minutes File
S. W. Swenson

SALES ORDER

Sold to:	Cathay Pacific Airways Limited Hong Kong, B.C.C.	Date:	31 March 1964
Reference:	(a) Purchase Agreement between General Dynamics Corporation and Cathay Pacific Airways Limited dated 20 March 1964	S. O. No:	880-26-11
	(b) Telecon between C. Z. German and C. J. Dutton 31 March 1964	W. O. No:	30791

(Page 1)

SALE OF CONVAIR 880M, SERIAL NO. 43

- (1) Reference (a) Purchase Agreement has been executed by Convair and Cathay Pacific providing for the sale of the following:
- (a) 1 Convair 880, Model 22M Aircraft, Serial No. 43, manufactured in accordance with Detail Specification, Report No. ZD-22-325 dated 1 February 1961 together with Addendum No. VI thereto dated 5 May 1961 through Revision 4 thereto.
 - (b) 1 General Electric CJ-805-3B Engine (Serial No. 207)
 - 1 Q.E.C.
 - 1 Sound Suppressor
- (2) The aircraft shall be prepared for flight and tendered for delivery to the Buyer, serviced except for fuel, ready for flight not later than 15 October 1964. Field Operations will prepare aircraft for acceptance flight, and Production Flight Department will conduct a demonstration flight of the aircraft on or before 15 October 1964 but not in excess of a total of three (3) flying hours (not excluding preliminary shakedown flights) in order to demonstrate to Buyer the satisfactory functioning of the aircraft and its equipment.
- (3) Based upon previous arrangements made with General Electric Company, Material Department is authorized to make necessary arrangements to transfer title of one (1) CJ-805-23B engine to General Electric in exchange for transfer of title by General Electric to Convair of one (1) CJ-805-3B engine, Serial No. 207, which has been operated approximately 2000 hours. Information concerning required delivery date of -3B engine from General Electric will be the subject of a revision to this Sales Order. Sound Suppressor mentioned in Paragraph (1) above is also to be procured from General Electric, preferably with delivery schedule compatible with that of the engine which is to be without overhaul and with 2000 hours use (Reference (b)).

SALES ORDER

Sold to: Cathay Pacific Airways Limited
Hong Kong, B.C.C.

Date: 31 March 1964

Reference: (See Page 1)

S. O. No: 880-26-11

W. O. No: 30791

(Page 2)

- (4) The coach seats called out under Appendix I-C of the Detail Specification, except for one (1) double left-hand seat, are not included in this sale and will not be installed in the aircraft upon delivery.
- (5) Service Publications will make available the following data prepared, where applicable, in accordance with the Convair Specification CS-59-045 dated 8 September 1959:

(1) Service Handbooks - Original (at no extra charge)

<u>Item</u>	<u>Quantity</u>
(aa) FAA Flight Manual	1 reproduced copy upon delivery of the Aircraft
(bb) Pilot's Handbook	1 reproduced copy
(cc) Maintenance Manual	1 reproduced copy
(dd) Wiring Diagram	1 reproduced copy

(2) Weight and Balance Data (at no extra charge)

<u>Item</u>	<u>Quantity</u>
Convair Weight and Balance Status report	2 reproduced copies

S JH / REN



J. D. H. Digges
Director of Contracts

CATHAY PACIFIC AIRWAYS MINUTES

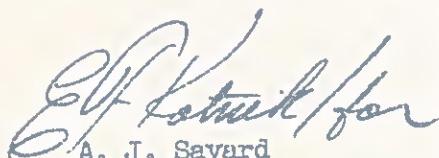
Reference (a) Sales Order 880-26-11

SALE OF CONVAIR 880M, SERIAL NO. 43

In accordance with the Reference (a) Sales Order, action as required is to be accomplished for the following:

- (a) The coach seats called out under Appendix I-C of the Detail Specification, except for one (1) double left-hand seat, are not included in this sale and will not be installed in the aircraft upon delivery.
- (b) Weight and Balance Report.

Note: Engineering action already initiated, on Item (b).



A. J. Savard
880/990 Program Office

cc: C. J. Dutton
T. Whelan
W. F. Brown/W. Fitzsimons
W. T. Dorrance
Minutes File
S. W. Swenson

GENERAL DYNAMICS/CONVAIR

Sold to: Cathay Pacific Airways Limited
Hong Kong

Reference: (a) GD/Convair - Cathay Pacific
Airways Letter Agreement
dated 1 May 1963

SALES ORDER

*Revised 13 June 1963
Date: 6 May 1963

S. O. No. 880-26-10

W. O. No. 30732

PILOT ASSIGNMENT -
CATHAY PACIFIC AIRWAYS LIMITED

1. Pursuant to Reference (a), this Sales Order authorizes the assignment of U. S. Johnson, Convair Flight Captain, to Cathay Pacific Airways for a period of 30 days commencing on or about 8 May 1963.

Accounting Department only:

2. Accounting Department is requested upon completion of the assignment authorized hereunder to invoice Cathay Pacific in the amount of \$3,990.00 covering Mr. Johnson's services for a 30 day period plus Mr. Johnson's air transportation from San Diego to Hong Kong and return.
3. This revision authorizes the Accounting Department to prepare and submit to Cathay Pacific Airways Ltd. an invoice in the amount of \$3,990.00 plus transportation costs to cover expenditures accumulated under Paragraph 1. above and in accordance with Reference (a); one copy of invoice is to be forwarded to Contracts Department.

EUM ls

Log No. 880-1136



*Revised to add Para. 3.

D. H. Digges
D. H. Digges
Director of Contracts

GENERAL DYNAMICS/CONVAIR

W E Fitzsimmons
6-12-23
SALES ORDER

Sold to: Cathay Pacific Airways Limited
Hong Kong

Date: 27 September 1962

SO No: 880-26-9

Reference: (a) GD/Convair - Cathay Pacific Airways
Letter Agreement dated 10 May 1962

WO No: 30,000 Series

CONVAIR FLIGHT CREW ASSISTANCE
CATHAY PACIFIC AIRWAYS LIMITED

- (1) In accordance with Reference (a) Letter Agreement, this Sales Order authorizes the Flight Department to provide Cathay Pacific Airways the services of Flight Captain U. S. Johnson and Flight Engineer C. J. Falkenthal for the period commencing 28 May 1962 and no longer than 15 August 1962.
- (2) Pursuant to paragraph (1) above it is requested that the Accounting Dept. prepare and submit to Contracts Dept. an invoice in the amount of \$18,117.00 covering Messrs. Johnson and Flakenthal's services from 28 May 1962 through 13 August 1962.

RLW/le

Log No. 1861

F. S. Chambers
for
Director of Contracts

GENERAL DYNAMICS/CONVAIR

Sales Order

Sold to: Cathay Pacific Airways Limited
Hong Kong

Date: 26 March 1962

SO No: 880-26-7

Reference: (a) Memo, V.F. Cernuto to R.L. Wintringer,
dated 5 March 1962
(b) Memo, V.F. Cernuto to R.L. Wintringer,
dated 14 March 1962

WO No: 30,000 Series

INCORPORATION OF SERVICE BULLETINS -
CATHAY PACIFIC SHIP 47

- (1) In accordance with References (a) and (b), this Sales Order authorizes those departments concerned to proceed with incorporation of the Service Bulletins, outlined under Reference (a) and Reference (b) memos, in Cathay Pacific Model 22M (Ship 47).

It is understood that the aircraft will be laid up, for this purpose, for a period not to exceed three days commencing 26 March 1962.

RLW:hs

Log No 709

F. S. Chambers
F. S. Chambers
Manager of Contracts

***Revised: 30 March 1962

— 392 391. 163

2. odd. Ann. Botan. de Roma. (2)

TELETYPE DIVISION/COMM-FR

***Revised 9 January 1963

To: Cathay Pacific Airways Limited
Hong Kong

***Revised 30 March 1962
Sales Order (Page Two)

Reference: (See Page One)

Date: 8 March 1962
SO No: 880-26-6
WO No: 30,732

34//

No further

billings anticipated under this authorization.

/s/ F. S. Chambers
for F. S. Chambers
Manager of Contracts

GENERAL DYNAMICS/CONVAIR

Sales Order

Sold to: Cathay Pacific Airways Limited Date: 30 January 1962
Hong Kong

Reference: (a) Cathay Letter, KP/1039/61,
dated 28 November 1961 SO No: 880-26-5
WO No: 30,000 Series

CATHAY PACIFIC - MODEL 229
REGISTRATION NUMBER

- (1) Cathay Pacific Registration No. VR-HFS has been assigned for identifying the one (1) Model 229 aircraft, Production Serial No. 47.
- (2) All concerned are to proceed accordingly with this authorization.

RJM:hs

Log No 394

for R. L. McIntyre
F. S. Chambers
Manager of Contracts

Fitzsimmons
6-122B
GENERAL DYNAMICS/CONVAIR

Sales Order

*Revised 26 September 1962
*Revised 1 March 1962

Sold to: Cathay Pacific Airways Limited
Hong Kong

Date: 16 January 1962

SO No: 880-26-4

Reference: (a) Letter Agreement, 11-0-5537,
dated 20 December 1961

WC No: 30,731
10/1970/H47144

CATHAY PACIFIC MODEL 22M MAINTENANCE TRAINING PROGRAM

- (1) Pursuant to the referenced Letter Agreement executed by and between General Dynamics/Convair, Hong Kong Aircraft Engineering Co., Ltd., and Cathay Pacific Airways Limited, this Sales Order authorizes GTEC/Service-Transport to conduct the Model 22M maintenance training program for BAEC at their facility, in Hong Kong.
- (2) Said training program, normally conducted at San Diego, as outlined under Article 11(c) of the Purchase Agreement between General Dynamics/Convair and Cathay Pacific, shall not exceed the normal six (6) week period with an additional week allowed for travel to and from Hong Kong.
- (3) This Sales Order further authorizes travel and per diem for four (4) instructors to conduct said training program with BAEC.
- (4) This revision authorizes the Accounting Department to invoice Hong Kong Aircraft Engineering Co., Ltd. in the amount of \$12,500 to cover the above authorized training program.

Initials

Inv. No. 227-562-1846

Revised to change Work Order number.
Revised to add para. (4)

J. P. Chambers
J. P. Chambers
Manager of Contracts

Sales Order

Cathay Pacific Airways Limited
Hong Kong

*Revised: 20 March 1962
Date: 19 December 1961
SO No: 880-26-3
WO No: 50,000 Series

CATHAY PACIFIC MODEL 880M CUSTOMER FURNISHED EQUIPMENT

- (1) The Cathay Model 880M Detail Specification includes no customer furnished Convair installed equipment; however, Cathay has purchased certain vendor spares which will be forwarded to Convair, San Diego, and will be stored aboard Cathay Pacific aircraft (Ship 47) at the time the aircraft is being readied for its ferry flight to Hong Kong. Until such time as the Cathay Pacific Model 880M aircraft is delivered and ferried to Hong Kong, it is requested that the CFE section of the Material Department follow the instructions outlined below covering the receiving and storing of all such equipment.
- a) All Cathay Pacific customer furnished equipment will be clearly identified as "Cathay Pacific, care of Convair - held at San Diego for up lift on delivery flight of Ship 47".
- b) No accountability records or inspection is to be performed on any packages received and identified as outlined under subparagraph (a) above.
- c) The Receiving Department is to forward all such material upon receipt to the CFE Crib Section, Rose Canyon, where all items are to be held pending revision to this Sales Order. Commercial Contracts Department is to be furnished four (4) copies each of receiving reports showing receipt of such material and said receiving reports will be transmitted to the customer for his records.
- (2) It is anticipated Cathay Pacific aircraft will depart for Hong Kong approximately 26 March 1962. Accordingly, and by revision to this Sales Order, the CFE section of the Material Department will be instructed to forward the subject equipment to Ship 47 where it will be stored aboard the aircraft equipment.
- (3) Any documentation that may be required in exporting this equipment will be so outlined by revision to this Sales Order in the near future.
- (4) The following disposition shall be made to all Cathay Pacific material presently located in the CFE Crib at Rose Canyon:
- (a) On 28 March 1962 the six wooden crates marked "CARE" shall be transferred to the Cathay Pacific aircraft Field Operations and loaded aboard the aircraft in time to support an 0800, 29 March departure for Los Angeles. (The aircraft will return to San Diego at approximately 1300, 29 March.)
- (b) All remaining Cathay Pacific material at Rose Canyon, CFE Crib Section shall be transferred to the Cathay aircraft at Field Operations on 29 March. This material is to be loaded aboard the aircraft 30 March in time to support aircraft departure for Hong Kong at 0800, 31 March.

Lot No. 684

Revised to add Para. (4).

J. F. Chambers
J. F. Chambers
Manager of Contracts N

GENERAL DYNAMICS/CONVAIR

Sales Order

Sold to . Cathay Pacific Airways Ltd.
Hong Kong

Date: 14 December 1961

Reference

SO No: 880-26-2

Reference: (a) Letter of Agreement between
General Dynamics/Convair and
Cathay Pacific dated
12 December 1961

WO No: 30,000 Series

SHIPMENT OF BUFFET UNITS TO NORDSKOG

- (1) Reference (a) sets forth arrangements for the shipment of one ship set of galley's identical to those installed in Aircraft No. 47 to Nordskog Company in Los Angeles for modifications which will be performed under a separate agreement between Cathay Pacific and Nordskog.
- (2) Accordingly, this Sales Order authorizes departments concerned to effect the immediate shipment of one ship set of galley's to the following address:

Nordskog Company Inc.
16000 Strathern Street
Van Nuys, California

Shipping instructions shall be issued by Manufacturing Control.

- (3) The galley's presently installed in Aircraft No. 47 will remain installed until the aircraft has been certificated and delivered to the customer, at which time departments concerned are authorized to remove said galley's from Aircraft No. 47 and hold for installation in some other aircraft.
- (4) Convair has no responsibility with respect to, or in connection with, the modification of the galley's being shipped to Nordakog or the subsequent installation of said modified galley's in the Cathay Pacific airplane.

ELM/R

Log No. 126


F. S. Chambers
Manager of Contracts

1960-1961 CHARTER YEAR

SALES ORDER

Address to Cathay Pacific Airways Limited
Hong Kong

Revised: 28 November 1961

Date: 24 November 1961

SO No. 880-26-1

Reference (a) Cathay Pacific letter
J. H. Bremridge to
E. J. Williams dated
27 September 1961
(b) TWX Bremridge to Comley
dated 24 November 1961

WO No. 30-900 Section

SALE OF ONE (1) MODEL 880M AIRCRAFT
TO CATHAY PACIFIC AIRWAYS LIMITED

- (1) This Sales Order notifies all departments concerned of the sale of one (1) Model 22M aircraft by Convair to Cathay Pacific Airways Limited.

(2) Accordingly, all departments concerned are hereby directed to proceed with the completion of aircraft 22-3-5 (Ship No. 47) in accordance with Detail Specification Report ZD-22-325, dated 1 February 1961 together with Addendum VI, dated 5 May 1961 as revised 2d-October 1961
20 November

(3) The aircraft shall be tendered for delivery to Cathay Pacific on or about 5th February 1962 in the configuration as described under paragraph (4) above.

(4) The point of delivery of said aircraft shall be in San Diego, California. All expenses of or in connection with, flyaway from San Diego, California, shall be borne by Cathay Pacific Airways Limited.

(5) Customer Service, in coordination with the Engineering and Flight Department, shall prepare and deliver all handbooks, information and data in quantities and at the time set out in Article 11 of the Purchase Agreement.

(6) The Flight department shall proceed with the schedule covering pilot's ground school and flight training in accordance with the plan previously agreed upon by and between Convair and Cathay Pacific Airways.

Revised to Amend paragraph (2) & (3)

SALES ORDER

C 100-10
Cathay Pacific Airways Limited
Hong Kong

Reference: See Page One.

Page two

Revised: 28 November 1961
Date: 24 November 1961

SD No: 880-24-1

WO No: 30,000 Sixten

SALE OF ONE (1) MODEL 880M AIRCRAFT
TO CATHAY PACIFIC AIRWAYS LIMITED

- (1) Negotiations are presently being conducted between Convair and Hong Kong Aircraft Engineering Company Limited concerning a maintenance training program. Instructions with respect to this program will be outlined by revision to this Sales Order upon completion of these negotiations. Customer Service will furnish Cathay Pacific the services of a field service representative as specified in Article 11 of the Purchase Agreement.

RJ Revised to Amend paragraph (2) & (3)

Shuttleworth
F. S. Shuttleworth
Manager of Contracts

~~GENERAL DYNAMICS/CONVAIR~~

6142

CATHAY PACIFIC MINUTES

28 November 1961

No. 1
Model 22-3 #5

Reference: (a) Sales Order 880-26-1 dated
24 November 1961

As evidenced by reference (a), the Engineering Department is authorized to support the task required to prepare Ship 22-00-47 (22-3 #5) for delivery to Cathay Pacific Airways, Ltd. in February 1962.

It is the intent to deliver this airplane in the configuration as currently released by the Engineering Department with the exception of the exterior markings.

ACTION: The Weights Group and Furnishings Group are to prepare applicable EWO's for the accomplishment of the task as described above. EWO's are to be submitted to the Project Office prior to November 30, 1961.

F. Herbert Sharp

F. Herbert Sharp
Project Engineer

FHS:MLC:gt

CUSTOMER SERVICE FIELD REPORT

FOR CONVAIR USE-ON

RECD BY
BILL
DOUMA
DATE REC'D
4/10
REPLY BY
4/17

DATE 7 April 62 CODE 22N-77.3.0 PAGE 1 OF 6
REPORT BY Harry L. Addis TITLE TFSE
CUSTOMER Cathay Pacific/Iaeco BASE Hong Kong
APL MODEL 22-3 UU-47 AFL SERIAL # VR-HFS TIME
REPLY REQUESTED YES NO SEND REPLY TO Writer
SUBJECT L-T Thermocouple Harness. Polarity of Leads in,

DISTRIBUTION

REF & ENCL (a) CV Spec 0-09001

FLD	<input checked="" type="checkbox"/>	OTHERS
AHF	<input type="checkbox"/>	
SAL	<input type="checkbox"/>	
SERV PUB	<input type="checkbox"/>	
SERV PTS	<input type="checkbox"/>	
SERV ENG	<input type="checkbox"/>	
SERV OPN	<input type="checkbox"/>	
P O	<input checked="" type="checkbox"/>	
QUAL CONT	<input type="checkbox"/>	
AERO	<input type="checkbox"/>	
DYN	<input type="checkbox"/>	
THERMO	<input type="checkbox"/>	
FLT TEST	<input type="checkbox"/>	
HYDR PNEU	<input type="checkbox"/>	
CONT	<input type="checkbox"/>	
MECH 103	<input type="checkbox"/>	
PROP	<input checked="" type="checkbox"/>	
AIR COND	<input type="checkbox"/>	
ELEC THIC	<input checked="" type="checkbox"/>	
ELEC THERM	<input type="checkbox"/>	
FURN	<input type="checkbox"/>	
APMT	<input type="checkbox"/>	
GRD SUP	<input type="checkbox"/>	
BODY	<input type="checkbox"/>	
W.E.T.	<input type="checkbox"/>	
STRUCT	<input type="checkbox"/>	
WHTS	<input type="checkbox"/>	30-00
HF REL	<input type="checkbox"/>	PROJECT NO.

After engine change, and during pre-run check, the polarity of the subject harness and thermocouple Alumel-Chromel leads was queried.

Research of ref (a), indicated the wire color coding and the Mil Standard 33560, on pages 3-71 and 3-71-1. The drawing and the text do not agree. This is noted for your convenience.

S 33560 drawing

WIRE	COLOR	POLARITY	PIN SIZE
Alumel	Yellow or Green	Negative	Small
Chromel	White or Red	Positive	Large

Text on Page 3-71-1

Alumel-Commercial	EEEEE Red	Negative	Magnetic
Military	Green		

Chromel-Commercial	Yellow	Positive	Non-magnetic
Military	White		

CV B/P 22-65501 and 22-65502 indicate the Alumel is RED and the Chromel is YELLOW.

From the foregoing there appears to be an error in the text in regard to the color code of the wire used.

Please advise if the polarity shown on the MS 33560 is correct.

GE Overhaul information indicates Thermocouple terminals A-D are Alumel, while Terminals B-C are Chromel. If this is correct then A-D should be + and B-C should be -.

Passing note:

My copy of ref (a) has a late revision dated 15 April 1960. If there have been subsequent revisions, please obtain same and forward to me.

RECEIVED

APR 25 '62

DATA &
PROCEDURES
ADMIN.

GENERAL DYNAMICS/CONVAIR

Harry Addis' report dated 7 April 1962

REPLY

18 April 1962

Enclosure: (A) Specification 0-09001 dated 10/1/61

The colors in the MS33560 spec are not as you indicated, but are as follows: Alumel-Green, Chromel-White (8 ohm system); Constantan-Yellow, Copper-Red (22 ohm system).

The polarity shown on MS33560 is correct.

G.E. Overhaul Manual (GEI-77339) on the Servo Temperature Indicator Type DJ-100 figure 8, page 21/22 shows contact A-Alumel negative-magnetic; contact B-Chromel positive-non-magnetic. Your Reference (a) document reflects same. We do not understand your implication.


W. M. LaFleur

WML&WDskr
6820-3000